



The Raleigh Amateur Radio Society's **EXCITER**

GET INVOLVED

- RARS General Membership meeting: First Tuesday of the month.
- The RARS net meets every night @ 8 p.m. on 146.640.
- The RARS Technical & Trader's net: Saturdays @ 8:30 p.m. or following the RARS net.
- RARS meets for a monthly dinner on the 2nd Tuesday of each month.

PUBLIC SERVICE EVENTS

A huge thank you to everyone who provided communications, SAG vehicles, and other help at any and all of the events in which RARS participates. Check back here for 2013 public service events.



RARS General Meeting Coming Up Soon!



What: General Meeting

Date: Tuesday, January 8, 2013

Time: Refreshments, 7:00 p.m.; meeting, 7:30 p.m.

Where: First Alliance Church, 4400 Buffaloe Rd., Raleigh, N.C.

NORTH CAROLINA SECTION NEWS *December 2012*

NC QSO PARTY CHANGES – Several changes have been made to the upcoming NC QSO Party, which will be February 24th. The contest begins two hours earlier than in the past, starting at 10 AM local time (1500 UTC) and going to 7:59 PM local (0059 UTC, Feb. 25). And for the first time, 6 and 2 meters have been added as bands, so Technicians can participate in full. There are also incentives for mobile and “expedition” (portable) stations to operate. For rules and news, go to www.ncqsoparty.org and plan to get on the air for the party.

ARES – Due to administrative changes within Army MARS, North Carolina Emergency Management (NCEM) agency licenses have switched to Navy MARS. MARS (Military Auxiliary Radio System) serves as a key partner with ARES in North Carolina, especially in digital communications.

Reprinted with permission from William C. Morine N2COP, Section Manager, ARRL NC Section.

RARS Officers

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The Raleigh Amateur Radio Society

The Raleigh Amateur Radio Society, Inc. (RARS) was founded in 1969 and continues to serve and support the amateur radio community in the greater Triangle area. In 1999, the society incorporated a new RARS and obtained 501(c)(3) non-profit tax status.

The objectives of the club are to promote worldwide friendship through amateur radio; to be of public service by providing radio communications in times of disaster, emergency, or civic needs; to educate members in radio technique, and to provide training classes to assist in obtaining amateur radio licenses.

Anyone interested in amateur radio is eligible to apply for membership. Dues for regular licensed amateurs are \$18 per year (from July 1 through June 30). Additional immediate family members pay \$5 each per year. Dues for licensed amateurs older than 59 or younger than 16 are \$12 per year. Dues for non-licensed associate members are \$9 per year. Applications for membership may be obtained from the treasurer or on the RARS website (www.rars.org).



Exciter

The *Exciter* is the official newsletter of the Raleigh Amateur Radio Society. It appears each month as a PDF on the RARS website at www.rars.org. Members receive email notification when the latest version is available. Please provide your email address to the Treasurer.

The *Exciter* welcomes articles, advertisements, and other contributions. To submit a piece to the newsletter, please contact the Editor. The Editor reserves the right to edit any and all pieces. The submission deadline for each month's *Exciter* is the third Friday of the preceding month. All submissions must be final. Drafts are not accepted.

The views expressed in the *Exciter* are those of the individual authors and do not necessarily reflect the views of the Editor or RARS.

Cathy Downs, KA3QPU, editor (editor@rars.org)

For Your Information

RARS General Meeting

Date: First Tuesday of each month
(except for January 2013)

Location: First Alliance Church
4400 Buffaloe Road
Raleigh, N.C.

Time: People begin arriving at 7 p.m.
The meeting officially begins at
7:30 p.m.

RARS Monthly Dinner

Join us on the second Tuesday of each month for the RARS dinner. It's open to everyone: RARS members, non-members, friends, and family. Feel free to bring your little ones! Dinner begins at 6:30 p.m.

Listen to the nightly RARS net and check www.rars.org for details on the next dinner's location.

RARS Repeaters in Raleigh

146.640 & 443.625 (88.5 PL)

Join us for the nightly RARS net at 8 p.m. on the 146.640 repeater. All hams holding a Technician class license or higher are invited to check in. We welcome both RARS and non-RARS members to the net.

VE Testing

The RARS VEs will accept walk-in testing at the February, May, August, and November RARS meetings; the RARSFest in April; the Cary Swapfest in July; the JARSFest in November; and following RARS license classes.

Please bring a photo ID, your current license, a copy of your current license, your \$14 exam fee, and any CSCEs you have for credit. Visit www.rars.org for

Message from the President

It is hoped that the peace and happiness of the holiday season continues for you and your family during the upcoming year.

73, Karl W4CHX

New RARS Members

Diane Sundberg	KB3ZPG
Arthur Sundberg	KB3ZPI
Coleman Blake	KJ4VHY

January Birthdays

Grady	AJ4YA	01/01
Bob	N4GEB	01/01
Howard	KI4GNB	01/03
Jerry	KE4TTS	01/04
Chuck	K4HF	01/04
John	WB4DDK	01/04
John	N4YRD	01/08
Jim	N4CAE	01/09
Beth	KF4QMR	01/09
Paul	KE4TMN	01/10
Paul	AA4XX	01/14
Wil	KK4MOZ	01/17
Marc	W4MPS	01/19
Ashby	KB5ZIH	01/20
Deb	KI4VVE	01/22
Ken	AC4RD	01/23
Kirk	KK4JDD	01/23
Dale	WA4JCK	01/26
Cyndi	KD4ACW	01/30
Alan	AB4OZ	01/30
Tom	K2UCU	01/31

SKYWARN Recognition Day 2012: A Success!

By Virginia Enzor NC4VA, CCS Emergency Coordinator

SKYWARN Recognition Day (SRD) took place Saturday, December 1, 2012, from 0000-2400 UTC. Created in 1999 by the National Weather Service and the American Radio Relay League, the event celebrated the contributions that SKYWARN radio operators make to the National Weather Service to help keep their communities safe.

During the event, SKYWARN operators contacted other NWS offices and spotters across the nation. Radio operators exchanged names, call signs, locations, signal reports, and a 1 or 2-word weather report. Over 100 NWS offices across the country participated in this annual event.

Central Carolina SKYWARN (CCS) enthusiastically teamed up with the Raleigh National Weather Service for the 14th annual SKYWARN Recognition Day, operating under the call sign WX4NC.

WX4NC Team

On the air from 7-8:30pm on Friday and 9am-5pm on Saturday at the NWS office on Centennial Campus in Raleigh, the WX4NC team consisted of NWS Warning Coordination Meteorologist Nick Petro



WX4NC Team—Front Row (L to R): Central Carolina SKYWARN (CCS) AEC Bob Woodson WX4MMM, Cassie Mentha W2YBN, Pamela Lewis KK4JCZ, Randy Stark WN4RSS, CCS EC Virginia Enzor NC4VA, Raleigh NWS Warning Coordination Meteorologist Nick Petro WX3H. Back Row (L to R): Chris Benson KJ4LKE, Ken Stark W4KJS, Phillip Jones KG4IVD, CCS AEC Scott Lewis KJ4BPV, Michaela Woodward, NC ARRL Public Information Coordinator Woody Woodward K3VSA (not pictured Darin Figurskey KC2IPY, Alan Pitegoff AB4OZ, and Cliff Broughton W4FT

WX3H, NWS Meteorologist-in-Charge Darin Figurskey KC2IPY, CCS Emergency Coordinator Virginia Enzor NC4VA, CCS Assistant Emergency Coordinator Bob Woodson WX4MMM, CCS Assistant Emergency Coordinator Scott Lewis KJ4BPV, Pam Lewis KK4JCZ, Chris Benson KJ4LKE, Ken Stark W4KJS, Randy Stark WN4RSS, Phillip Jones KG4IVD, Cassie Mentha W2YBN, NC ARRL Public

Information Coordinator Woody Woodward K3VSA, and Michaela Woodward (not a ham...yet!).

We divided up tasks to maximize efficiency. Virginia Enzor NC4VA coordinated overall SRD activities and served as QSL manager for the event. Scott Lewis supervised the temporary antenna setup with assistance from Alan Pitegoff AB4OZ and Cliff Broughton W4FT on Friday

See **SRD**, continued on p. 5

night and Nick Petro WX3H on Saturday morning. Bob Woodson WX4MMM oversaw the IRLP station while Ken Stark W4KJS and brother Randy Stark WN4RSS covered the 2 meter/440 station. Nick Petro WX3H set up an echolink station just in time for SRD and manned it.

Equipment

For VHF/UHF, we used two permanently installed dual band Kenwood TMD7 radios with Diamond dual band vertical antennas mounted on the roof of the building housing the National Weather Service.

There were 3 HF radios. First was the NWS radio—a Kenwood TS 570S used with a permanently installed moxon antenna. Scott Lewis KJ4BPJ brought his Kenwood TS-120 and used it with a 20-meter dipole, while Virginia Enzor NC4VA set up her IC-7000 with a 40-meter dipole and an MFJ 993 automatic tuner. For logging, we used both paper and user-friendly N3FJP logging software.

Contacts

Here's a breakdown of our contacts:

HF (15, 20 & 40 meters): 155 contacts

VHF: 28 contacts

UHF: 28 contacts

IRLP: 35 contacts

Echolink: 14 contacts

Total: 260 contacts

Great propagation allowed us to set a new record high for WX4NC by making contact with 57 NWS offices, earning us the F3 Tornado certificate and eclipsing our old record of 41 NWS offices. We also contacted 45 out of 50 states. To see the scores of all participating offices, please visit <http://www.wrh.noaa.gov/mtr/hamradio/>; updates are added weekly as scores are submitted.

Our farthest contacts were Hanwell, New Brunswick, Canada, where it was clear and a numbing 16 degrees, and San Juan, Puerto Rico, where it was raining and a mild 77.7 degrees. What a contrast!

While taking a break from the airwaves, we were treated to a delicious lunch provided by the NWS and presented with handsome SRD 2012 certificates of appreciation.



NC ARRL Public Information Coordinator Woody Woodward K3VSA excitedly received his certificate of appreciation/participation in SRD from the NWS.

Several Firsts

It was a day of firsts in several ways. This was the highest number of contacts with NWS offices that we have ever made, earning us our best-ever certificate. This was the first time we utilized a WX4NC Echolink station which definitely added points to our score. And lastly, newly licensed Pam Lewis KK4JCZ made her first HF contact!

Next year, we plan to do antenna setup earlier in the week to allow more time for operating and perhaps add a digital mode as well. We will also switch to all software logging. Our goal for 2013 will be the highest certification: Category 5 Hurricane!

We wish to thank to all spotters who made contacts with us, and we hope to get you in the log again next year on SRD. And most importantly, thanks for your service and reports to SKYWARN and the NWS throughout the year.



L-R: Cassie Mentha W2YBN, Chris Benson KJ4LKE and Scott Lewis KJ4BPJ "searched and pounced" on NWS offices across the county.



Antenna crew: Cliff Broughton W4FT, left, and Alan Pitegoff AB4OZ assist from the roof of the NWS office with additional antenna installation on November 30.

Top right: Michaela Woodward updates weather conditions for radio operators.

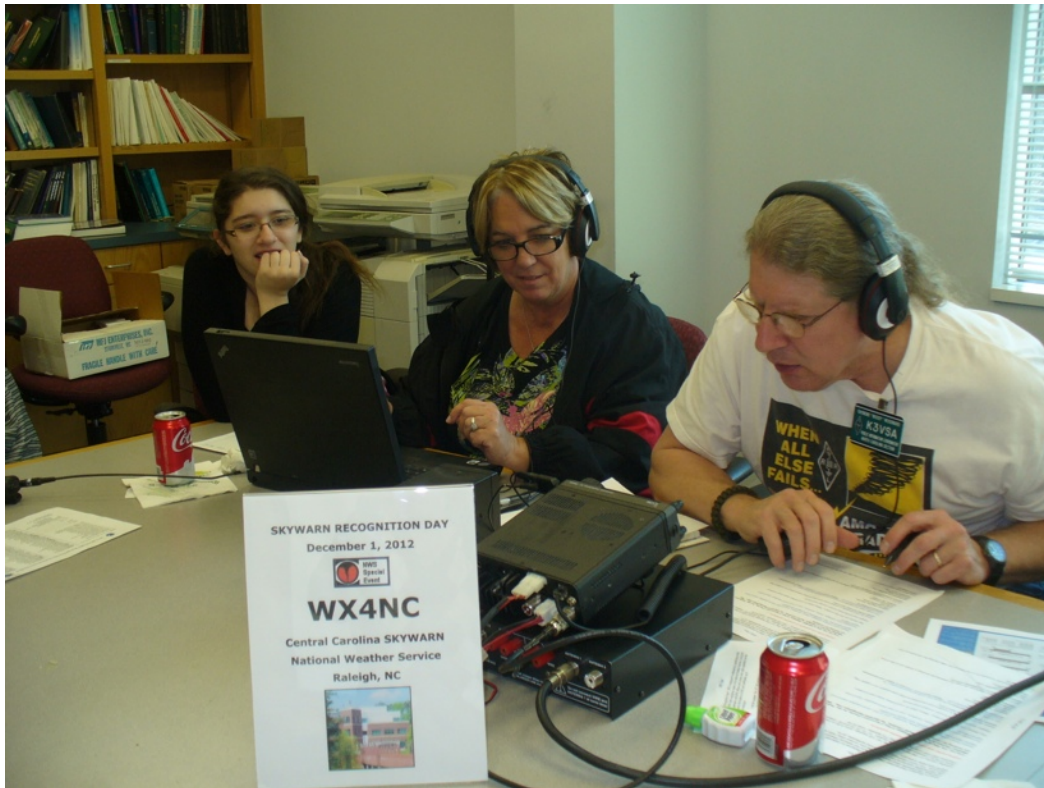


Above: HF team of Pamela Lewis KK4JCZ (left) and Virginia Enzor NC4VA scored numerous contacts on 40, 20 and 15 meters. Pam made her first HF contact!

Top right: VHF team of Ken Stark W4KJS, front, and brother Randy Stark WN4RSS and IRLP Coordinator Bob Woodson WX4MMM, rear, were busy throughout the day.

Raleigh NWS Meteorologist-in-Charge Darin Figurskey KC2IPY searches for a clear frequency while Warning Coordination Meteorologist Nick Petro WX3H prepares to log.





At left: NC ARRL Public Information Coordinator Woody Woodward K3VSA makes a contact while Pamela Lewis KK4JCZ logs and Michaela Woodward observes.



Cassie Mentha W2YBN displays her "gi-normous" HT antenna! She had no problems communicating with WX4NC team members.



Nich Petro WX3H, right, presented certificates of appreciation/participation to all SRD participants; pictured with Nick are, left to right, Bob Woodson WX4MMM, Scott Lewis KJ4BPV, and Virginia Enzor NC4VA.

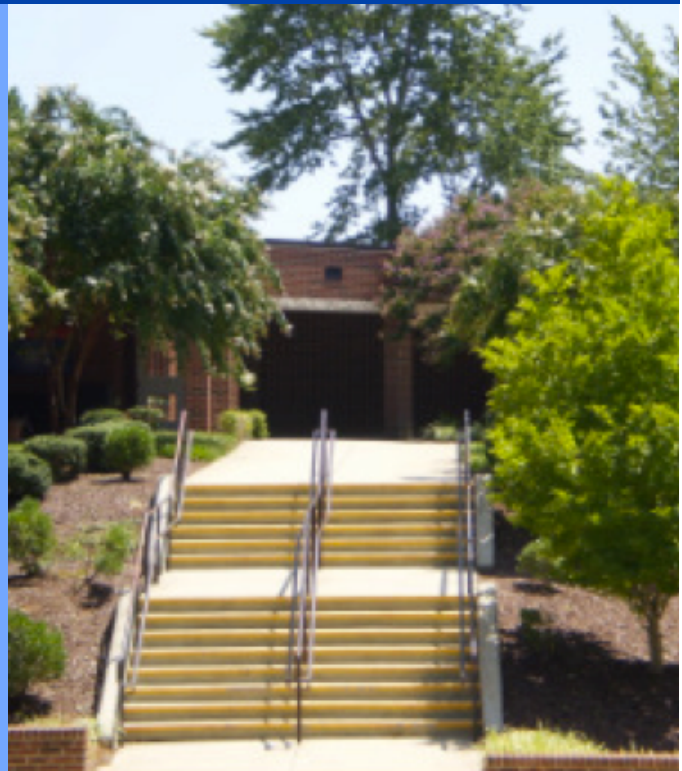
Talk to Kids at Powell Elementary, KI4LPW

When: Thursdays, 9:30-10:00 a.m.

Where: 146.640 repeater

Why: To enjoy amateur radio
and inspire young hams

by Steve Jenkins KA8HXX



Powell Elementary School in Raleigh has its very own amateur radio station, KI4LPW, and each school year conducts an amateur radio class for 3rd, 4th, and 5th graders for approximately 20 weeks. The class meets during the school day. From 9:20 a.m. to 10:05 a.m. every Monday, Tuesday, Wednesday, and Thursday, the class meets to learn about a wide variety of amateur radio topics and topics related to amateur radio. Ms. Deb Bray, KI4VVE, is the Technology Facilitator for Powell Elementary and the teacher for the amateur radio elective at Powell Elementary.

Questions, Questions!

One of the most popular activities in the class is talking on the radio to other amateur radio operators. The school uses the club call sign KI4LPW, and Deb, KI4LPW, is the control operator. Once a week the kids get a chance to ask questions and talk to amateur radio operators on the air. I have had the distinct pleasure of talking to the kids most weeks and answering most of the questions.

Some questions are easy: “How long have you

had your license?” Some questions are hard: “Why was the first radio invented and who invented it?” I don't know the answer to all the questions. Sometimes other hams will join in to help, or the kids will need to research the question further in class.

Now It's Your Turn

Starting in the New Year, I will not be able to meet the kids on the radio due to my work schedule. The kids and Deb would like to continue to talk to other amateur radio operators once a week. This is a chance for you to talk to kids and inspire the next generation of hams.

The class will be listening to the 146.64 repeater every Thursday from 9:30 a.m. to 10:00 a.m. If you have some time, and hear KI4LPW on the repeater, be sure to take the chance to talk to the kids and possibly answer a question or two. Remember, it is OK to not know the answer to every question. You can even ask the kids questions to keep them on their toes. For example, “What is your favorite class and why?”

See **Powell E.S.**, continued on p. 7

In summary

What: Talk to the kids at Powell E.S., KI4LPW

When: Thursdays, 9:30am to 10:00am

Where: 146.640 repeater

Why: Enjoy amateur radio & inspire young hams

The kids truly enjoy making contacts and learning about amateur radio. I hope many local hams get a chance to make a contact and talk to one or more kids from Powell Elementary School in the New Year.

Events, Hamfests & Conventions

FirstFest | Jan. 12

Location: Winston-Salem, NC

Website: www.w4nc.com

Greenwood Hamfest | Jan. 12

Location: Greenwood, SC

Website: <http://w4gwd.org>

Charleston Hamfest | Feb. 2

Location: North Charleston, SC

Website: <http://www.wa4usn.org>

Frostfest | Feb. 2

Location: Richmond, VA

Website: <http://www.frostfest.com>

NC QSO Party | Feb. 24

Website: <http://www.rars.org/ncqsoparty>

2013 Charlotte Hamfest™ | Mar. 8-9

Location: Concord, NC

Website: <http://www.charlottehamfest.org>

Raleigh Hamfest | Mar. 30

Location: Raleigh, NC

Website: <http://www.rars.org/hamfest/>

Upstate Hamfest | May 4

Location: Spartanburg, SC

Website: <http://brars.org>

Dayton Hamvention® | May 17-19

Location: Dayton, OH

Website: <http://www.hamvention.org>

Mid-Summer Swapfest | Jul. 20

Location: Cary, NC

Website: <http://www.qsl.net/n4nc/swapfest.html>

www.rars.org

These Kids Today

By Justin Pinnix AJ4MJ

Justin originally posted this article on his website, www.fuzzythinking.com and wanted to share it with the RARS community.

I normally refrain from the “social commentary” discussions that are plentiful around ham radio circles. However, something happened today that really touched me that I wanted to share with all of you.

We were having lunch with a former coworker and his family. Our families have been friends for many years, but we only see each other once or twice a year, usually at Christmas. The subject of music came up and my friend’s wife remarked that her son had “quite an ear.” He asked if I wanted to see what he had been up to, and I said, “Sure.”

He reaches into his pocket and produces a smartphone. Being a polite kid, he had not used it at the table previously and was paying full attention to his company. He showed me that his phone had a music sequencer program. Having owned a home recording studio, I was familiar with sequencers and had used them before with keyboards and computers.

Joseph proceeded to tell the story about how the family was on a 9-hour trip to Memphis. Using a piano keyboard drawn onto the phone’s tiny touchscreen, he had composed a piece of music. It was intricate, consisting of 4 or 5 parts and rich “10-finger” chord. The piece was over 5 minutes in length. I was amazed! The amount of patience it must have taken and the quality of the finished product blew me away.

The conversation progressed and he told me about a summer technology game he had attended focused on video game development. When he said, “I really enjoy writing Z-80 assembler,” I nearly fell out of my

See **Today’s Kids**, continued on p. 10

chair! Teenagers programming computers is nothing new, but for a 13-year old today to be working with the same hardware I hacked on as a kid was quite a surprise. Turns out a modern version of this chip is still used in TI Graphing calculators and an assembler SDK is available.

After lunch, we went back to my house and I gave him the “grand tour” of my electronics bench and ham shack. He told me that this tremendous interest had been seeded by using emulators. He was dying to get his hands on physical hardware, which, up until now, he had not had access to.

I started by showing him the Arduino Uno. For those of you unfamiliar, it is an inexpensive 8-bit microcontroller prototype board based on the popular Atmel AVR microcontroller. I showed him programming the board using freely available tools for both C and assembler. As I mentioned, his dad was a former coworker (also a software developer), so the three of us discussed the finer points of assembler listings and stack pointers.

He spotted my KX3 and paddles on the desk, pointed at it, and said, “Hey is that for sending Morse code?” I replied in the affirmative and gave a quick demo of amateur radio. Thanks to the KX3’s decoder, he was able to follow a conversation and see that the remote station was in the UK. Both father and son were amazed.

Next, I showed him some of the other projects I had constructed—several QRP rigs and the atomic clock. We talked a bit about leap seconds. He then mentioned that he had been designing microprocessors. I thought he meant designing boards around processors, but then he told me about working around a problem where the move instruction had the data ready before the memory and having to add not gates to form a delay line.

Again, this was something he had done in emulation due to the magic of software that is

available to hobbyists. While we can all agree that simulations aren’t “the real thing”, the amount this kid was able to learn by trying freely available software tools was nothing short of amazing. How many “real hams” have fabbed their own silicon? I certainly haven’t.

Next, we made a stop at my bookshelf. I gave him copies of several old microprocessor manuals along with “Getting Started in Electronics.” I also showed him the Sparkfun website where he could get a plethora of interesting add-on modules for the Arduino. (*N.B.* The Arduino boards can be purchased locally at Radio Shack). Last but not least, we went outside for a tour of the antenna farm.

I’m not sure what Joseph is going to do for a career (he’s in the 8th grade).

However, he seems to have quite a foundation and a burning interest in all things technical. He is very excited about the prospect of going to a magnet high school.

Perhaps he will pursue a ham radio license. Regardless of whether he does or not, he certainly embodies the “homebrew spirit.”

So, the next time you see a youngster pecking on a cell phone, don’t dismiss them as lazy or unmotivated. They could be doing something really amazing! And, before you start the “these kids today” speech, remember Joseph. He’s an amazing kid and there are thousands more like him. He is following a path not unlike many other ham radio and electronics enthusiasts. Perhaps some of you were also Josephs in your day.

So, the next time you see a youngster pecking on a cell phone, don’t dismiss them as lazy or unmotivated. They could be doing something really amazing!

Minutes

General Membership Meeting Raleigh Amateur Radio Society December 4, 2012

1. **Call to order:** Karl W4CHX called the meeting to order at approximately 7:30 PM. There were 44 individuals in attendance.
2. **Approval of minutes:** The Minutes of the RARS General Membership meeting on November 6, 2012 were approved.
3. **Vice President's report (CJ NC4CJ):** Since CJ NC4CJ could not be present, Karl W4CHX reported that the speaker for the January, 2013 General Membership meeting will be Karl Bowman, W4CHX and his presentation is entitled, "The Collins 51S-1 HF Communication Receiver."
4. **Treasurer's report (Greg KE4PAX):** Greg KE4PAX reported that RARS has 284 members. If any RARS member has any questions, please contact Greg KE4PAX or Karl W4CHX for further information.
5. **Announcements (Karl W4CHX):**
 - a. Upcoming RARS events and hamfests: Karl W4CHX reminded everyone to see the Exciter or the ARRL website for further information.
 - b. Current Dxpeditions and upcoming ARRL contest: Karl W4CHX commented that 5T0SP, Mauritania, Africa (11/24 to 12/10) and ZL9HR, Campbell Island, New Zealand (11/28 to 12/9) were on the air. The ARRL 10 Meter Contest will be held on December 8-9, 2012.
 - c. After meeting gathering: The after meeting gathering will be held at Applebee's, Six Forks and Wake Forest Roads (by the Costco).
 - d. Guests: The guests included Russ Rossi, KK4IPZ; and, Derick Glover.
6. **Reports from RARS Board members and others:**
 - a. Installation of officers and board members for 2013 (John AI4RT): John AI4RT conducted the installation ceremony for officers and board members for 2013:

RARS Officers for 2-year term:

Vice President:

CJ Orr, NC4CJ

Treasurer:

Greg Seamster, KE4PAX

RARS Board Members for 1-year term:

Public Service Director:	John Snellen, AI4RT
Public Information Officer:	Ken Rudder, WA4JJW
2013 Hamfest Chair:	John Snellen, AI4RT
Exciter Editor:	Cathy Downs, KA3QPU
Net Manager:	Mary Holtschneider, KG4OQA
At-Large Director:	Don Downs, WA4AVU
At-Large Director:	Jack Foster, N6UYB
At-Large Director:	Bill Mars, AK4BL
FM Repeater Chair:	Karl Bowman, W4CHX
W4DW, W4RNC Trustee:	Jeff Wittich, AC4ZO
ARRL Liaison:	Chuck Littlewood, K4HF
Education Director:	Murray Merner, K4MHM
RARS Web Master:	Hank Montgomery, K4HM

RARS Committee Chairs for 1-year term:

Hospitality Chair:	Charlie Swindell, WB4DCM
Food Service Chair:	Joanne Mars, AK4RJ
NC QSO Party Chair:	Marty Young, W4MY
2013 Field Day Chair:	Bob Starkenburg, W4TTX
VE Team Coordinators:	Liz White, KO4CK. Joe White, WA4GIR

7. **Any other business:** None.
8. **Drawing:** The winners of the drawing were Alan AB4OZ, Tom N4TL, and Ken WA4JJW.
9. **Program:** Instead of a presentation, the attendees enjoyed snacks and conversation.
10. **Adjournment:** The meeting was adjourned at approximately 9:00 p.m.

Latest Traffic Stats

RARS Two Meter Traffic/ Ragchew Net

Check-ins: 559
Traffic: 32/28
Minutes: 580
Sessions: 30

Special Interest Nets

Check-ins: 88
Minutes: 320
Sessions: 9

Stay Tuned...

Although there are some key details to be worked out, our new Education Director, Murray Merner, K4MHM, is working on setting up a Technician licensing class. It is hoped that the class can be scheduled during the first quarter of 2013 and will likely to be held in the Cary area. Please stay tuned for further information!



LOCAL AMATEUR RADIO NETS

The **Apex Emergency Response Communications Net** meets weekly each Sunday at 9 p.m. on the 146.640 repeater. The purpose of the net is to assist ham radio operators in preparing to respond to emergencies, test their equipment, improve operating skills, pass traffic, and to provide those with a common interest an opportunity to meet. The Apex ERC Net provides amateur radio emergency communications for The Church of Jesus Christ of Latter-Day Saints' disaster relief efforts. All stations are invited to participate in this net.

Please join us on the **Carolina 440 Net** every Monday night at 7:30 p.m. This ragchew net utilizes the Carolina 440 UHF Link Repeater System. Comprised of the Raleigh, Down East, and Coastal Wilmington link systems, there are currently 19 repeaters on the system, covering 21,168 square miles. For a list of these repeaters, please visit www.carolina440.net.

Please join us each Tuesday at 9:15 p.m. on the 146.880 repeater for the **Central Carolina SKYWARN** net. On each net there are announcements, check-ins by county, and often a program or training spot. Check us out at www.centralcarolinaskywarn.net.

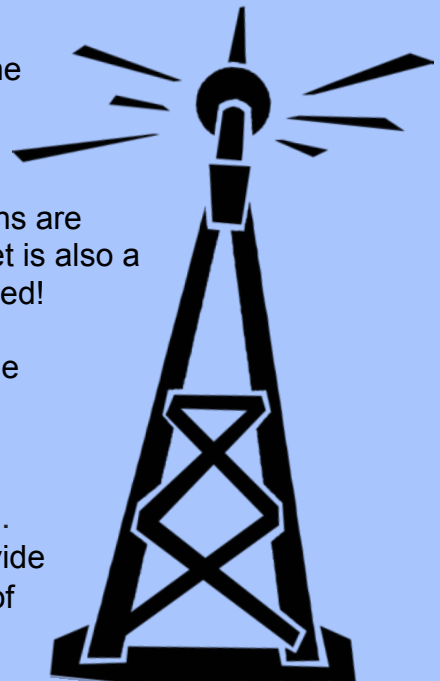
The **PCTN (Piedmont Costal Traffic Net)** meets daily at 9 p.m. on the 146.880 repeater. The purpose of the net is to handle/pass NTS formal messages. Amateur stations are encouraged to check in and participate. The backup repeater is the 147.105 (PL tone 82.5).

The **RARS Technical & Trader's Net** is held on Saturday evenings on the 146.640 repeater at 8:30 p.m.

Join us every evening at 8 p.m. on the 146.640 repeater for the **RARS Two-Meter Net**. You can give a ragchew, check in and out (this counts for our total numbers reported to the ARRL!), make announcements, and pass traffic. We also offer National Traffic System traffic training. All licensed stations are welcome to participate in the net as often as they can. This net is also a great way to learn about amateur radio if you are newly licensed!

The **VOIP Hurricane Net** is held Sundays at 00:00 UTC on the 146.775 repeater with a tone of 88.5 (IRLP node 4260). For information about activation details, go to www.voipwx.net.

The **Wake County ARES Net** meets Thursdays at 9:15 p.m. (after the PCTN TrafficNet) on the 146.88 repeater. We provide discussion and training for the implementation and provision of emergency communications for our served agencies, such as the American Red Cross and the local and state Emergency Operations Center. Please join us. For more information please visit <http://www.wakeares.org>.



RARS Classifieds

RARS Members: [Post](#) a new 30 day listing or [Edit](#) your current listings. The items below were listed within the last 30 days.

Yaesu FT 1802 2 Meter 50 Watt Mobile Transceiver

Posted January 2nd, 2013 by: K4HF

Contact: k4hf@arrl.net

This transceiver comes with the mobile mounting bracket, mike and manual. It is in excellent condition - \$100. A mobile mag mount antenna and base power supply are also available. Contact Chuck by E Mail, preferred, or (919) 872-6555.

ICOM IC-735 HF 100 Watt Tranceiver with matching PS-55 P. Supply

Posted January 2nd, 2013 by: K4HF

Contact: k4hf@arrl.net

This 160 thru 10 Meter transceiver includes the WARC Bands, has Gen. Coverage receive and a digital display. It operates SSB, AM and CW modes. A 500 Hz cw filter is included. Original boxes, hand mike, and manual come with it. This radio and power supply are in excellent condition - \$475.

Contact Chuck by E Mail, preferred, or (919) 872-6555

Panadapter for sale

Posted January 2nd, 2013 by: K4BYN

Contact: louisalexander@nc.rr.com

New LP-Pan2 panadapter. Can be used with free SDR-IQ/IF software to provide the "flex" radio screen controls. I bought to use with Yaesu transceiver but did not enjoy using it, so it is for sale. Less than 2 months old and ready for a new home. Asking \$190. Check it out on Telepost site. Louis, K4BYN.

WANTED: Dual Band Mobile Radio

Posted December 31st, 2012 by: KK4DHD

Contact: kk4dhd@arrl.net

I'm looking for 2m/440 dual band mobile radio to put in my Toyota Corolla. Would prefer to have one with dual receive & a detachable head, but that isn't essential. Brand isn't terribly important. Looking to spend \$200-\$300.

Contact Nathan at kk4dhd@arrl.net or 919-741-0428.

Nikon D100 camera body

Posted December 24th, 2012 by: N4TL

Contact: n4tl2@yahoo.com

Need a good camera for taking pictures of your radio equipment? For sale is a used Nikon D100 digital SLR camera body. It comes with the original box, manuals and cables. Also the battery charger and a spare battery. The camera takes pictures fine but the display on the top of the camera is fading where it shows how many more pictures can be taken. The Camera also comes with memory card. \$50 as is. Contact Tom Lewis, N4TL 919-870-9342.

Manual wanted:

Posted December 9th, 2012 by: NC4JP

Contact: nc4jp@petersonpiano.com

Operator's Manual (or a copy) for:

Precision Apparatus, Inc.

Series 10-20

Tube & Set Tester.

Want to be a Published Writer?

Everyone has a favorite aspect of amateur radio. From contests to antenna building, there's something for everyone. Why not share your interests, expertise, and experience with RARS in the *Exciter*? We welcome member and non-member/affiliate submissions.

Both technical and non-technical articles are needed for the *Exciter*. You could write up a quick column on QSL cards or a longer how-to piece on setting up a new shack. And don't feel pressured to write a novel; articles of all sizes are appreciated!

To submit an article, simply email your piece to the Editor (editor@rars.org). Please also feel free to attach pictures to accompany your article. It is helpful if you add captions and identify the people in photographs, and have their permission to use their image.



RARS Classifieds

Want to add a new radio to your shack? Have an antenna for sale? Browse the RARS classifieds for new and used radio equipment at <http://rars.org/classifieds.php> or see p. 10 of this newsletter for current listings.

RARS members may post notices about equipment they are selling. Posts last for 30 days and are editable at any time.

Using our classifieds is a great way for buyers to search for available items and for sellers to reach a local, targeted audience.

The Raleigh Amateur Radio Society's

EXCITER

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